EXHIBIT 5

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1
                                     VOLUME: I
                                     PAGES: 1 to 148
 2
                                      EXHIBITS: 9 to 10
 3
                    UNITED STATES DISTRICT COURT
 4
                NORTHERN DISTRICT OF CALIFORNIA
                          OAKLAND DIVISION
 5
 6
          Civil Action No. 4:18-cv-06753-PJH
 7
         In Re:
                                          )
 8
         RIPPLE LABS, INC.
         LITIGATION
 9
10
11
         This Document Relates To:
12
         ALL ACTIONS
13
                   VIDEOTAPED DEPOSITION OF STEVEN P.
14
15
          FEINSTEIN, called as a witness on behalf of
16
          the Defendants, pursuant to the applicable
          provisions of the Federal Rules of Civil
17
          Procedure, before Jeanette N. Maracas,
18
19
          Registered Professional Reporter and Notary
20
          Public in and for the Commonwealth of
21
          Massachusetts, at the Offices of Morgan,
22
          Lewis & Bockius, One Federal Street, Boston,
23
          Massachusetts, on Friday, January 20, 2023,
24
          commencing at 9:41 a.m.
25
                                                      Page 1
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	A DDE A D ANGEG		
1 2	APPEARANCES:	1	PROCEEDINGS 09:40:39
	SUSMAN GODFREY, LLP	2	VIDEOGRAPHER: We are on the record. 09:40:39
3	By: Nicholas N. Spear, Esq. 1900 Avenue of the Stars	3	This is the videographer speaking, Shawn 09:41:46
4	Los Angeles, CA 90067	4	Budd with Veritext Legal Solutions. Today's 09:41:48
	For the Lead Plaintiff.	5	date is January 20, 2023, and the time is 09:41:51
5	Nspear@susmangodfrey.com	6	9:41 a.m. We are here at the offices of 09:41:55
6	KING & SPALDING, LLP	7	Morgan Lewis, Boston, Massachusetts to take 09:41:59
7	By: Andrew Michaelson, Esq.	8	the video deposition of Dr. Steven Feinstein 09:42:02
	By: Luke N. Roniger, Esq. (Texas)	9	in the matter of Ripple Labs, Inc. 09:42:06
8	By: Jared Lax, Esq. (via Zoom)	^	**
9	1185 Avenue of the Americas New York, NY 10036	10	litigation. 09:42:09
"	For the Defendants.	11	Will counsel please introduce 09:42:10
10	Amichaelson@kslaw.com	12	themselves for the record. 09:42:11
١	Lroniger@kslaw.com	13	MR. SPEAR: Nick Spear, Susman 09:42:13
11 12	Shawn Budd, Videographer.	14	Godfrey for lead plaintiff, Bradley Sostack. 09:42:16
13	Shawii Budu, Videographer.	15	MR. MICHAELSON: Andrew Michaelson 09:42:20
	ALSO PRESENT VIA ZOOM:	16	from King & Spalding representing defendants, 09:42:21
14		17	
15	Ana Guardado, Esq., Ripple Labs, Inc.		
16		18	also from King & Spalding in person. My 09:42:29
17		19	colleague, Jared Lax, also from King & 09:42:30
18		20	Spalding, is attending remotely and Ana 09:42:35
19 20		21	Guardado, in-house counsel at Ripple, is 09:42:40
21		22	also joining remotely. 09:42:42
22		23	VIDEOGRAPHER: The court reporter 09:42:43
23		24	today is Jeanette Maracas. Will you please 09:42:44
24 25		25	swear in the witness. 09:42:47
23	Page 2	23	Page 4
	INDEN		
1	INDEX	1	STEVEN P. FEINSTEIN
2	Testimony of: Direct Cross	2	A witness called for examination
3	Steven P. Feinstein	3	by counsel for the Defendants, having been
5	(by Mr. Michaelson) 5	4	first duly sworn, was examined and testified
3	EXHIBITS	5	as follows:
6	EXHIBITS	6	DIRECT EXAMINATION
7	No. Description Page		
8	140. Description Tage	7	BY MR. MICHAELSON: 09:43:06
	Exhibit 9 Deposition notice. 19	8	Q. Good morning, Dr. Feinstein. My name is 09:43:08
9	Zimon / Deposition notice.	9	Andrew Michaelson from King & Spalding 09:43:18
^	Exhibit 10 Exhibit 62, Expert	10	representing defendants. How are you today? 09:43:22
10	Report of Steven P.	11	A. Fine, thank you. 09:43:24
-	Feinstein, 11/18/22. 24	12	Q. Let me go over a few groundrules that should 09:43:25
11	· · · · · · · · · · · · · · · · · · ·	13	help make today go more smoothly. You may 09:43:27
12		14	be familiar with them, but I'll go through 09:43:28
13			
14		15	them nonetheless. 09:43:29
15		16	First, do you understand you're 09:43:31
16		17	under oath just as you would be in a 09:43:32
17		18	courtroom at trial, is that correct? 09:43:34
18		19	A. Yes. 09:43:37
19		20	Q. And you understand that we have a court 09:43:37
20		21	reporter who is taking down every word that 09:43:39
21			
22		22	you and I say? 09:43:41
23		23	A. Yes. 09:43:42
24		24	Q. Is there any reason why you can't give 09:43:42
25		25	complete truthful testimony today? 09:43:47
	Page 3		Page 5
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1 Q. I see. Have you visited the website of 09:57:54	1 not really pursuant to. 10:01:07
2 any other crypto exchange aside from 09:57:58	2 Q. Fair enough. I'd like to direct your 10:01:08
3 Coinbase? 09:58:00	3 attention to Page 3 of the document which is 10:01:10
4 A. I may have. I don't recall specifically, 09:58:02	4 the request for production of documents. 10:01:12
5 but I may have. Not that I recall 09:58:04	5 A. Okay. 10:01:15
6 specifically as I sit here now. 09:58:08	6 Q. And have you seen these requests before? 10:01:16
7 Q. So you may have, but you don't recall today? 09:58:10	7 A. Did you say these requests? 10:01:23
8 A. Correct. 09:58:12	8 Q. Have you seen this set of document requests 10:01:24
9 Q. Okay. 09:58:12	9 before? 10:01:27
10 A. Names that appear for example, what I'm 09:58:17	10 A. This exhibit, yes, I've seen this document. 10:01:27
11 referring to here is if I read an article 09:58:20	11 Q. Did you undertake to collect documents in 10:01:30
and they cite Gemini, for example, I may have 09:58:22	12 response to this request? 10:01:33
13 Googled quickly Gemini and seen what comes 09:58:25	13 A. I did. 10:01:35
up, but I did that again not in connection 09:58:30	14 Q. Was there any document that you're aware 10:01:35
15 with this case. 09:58:31	15 of that are responsive to these requests 10:01:43
16 Q. And I'm not prying into financial details 09:58:32	16 that you didn't provide to your counsel for 10:01:44
17 here, but I do just want to ask what your 09:58:38	17 production in this case? 10:01:46
18 experience is in trading digital assets, and 09:58:41	18 MR. SPEAR: Objection. I'll just 10:01:48
19 you said that you bought some small amount 09:58:44	19 note that we objected to certain documents or 10:01:49
20 of digital assets on Coinbase. Do you still 09:58:47	20 certain parts of these as not being things 10:01:53
21 own digital assets today? 09:58:51	21 that we were going to produce. Are you 10:01:55
22 A. No. 09:58:53	22 asking I'm not sure what you're asking. 10:01:57
23 Q. Approximately how many trades in digital 09:58:54	23 MR. MICHAELSON: I was asking if 10:02:00
24 assets have you made? 09:59:00	24 he's aware of something that's responsive to 10:02:01
25 A. Two, a purchase and a sale of Ethereum. 09:59:01	25 these that he didn't share with counsel, but 10:02:03
Page 18	Page 20
1 Q. So a purchase and a sale of Ethereum. 09:59:06	1 I understand the nature of your objection. 10:02:09
2 Okay. Have you visited the XRP Ledger in 09:59:10	2 To be honest, we just got the production 10:02:12
3 preparation for today's deposition? 09:59:29	3 less than, I think, 48 hours ago and we've 10:02:15
4 A. No. 09:59:32	4 transferred to our vendor 24 hours ago and 10:02:17
5 Q. Did you visit or interact at all with the 09:59:32	5 some of it we haven't been able to access 10:02:21
6 XRP Ledger in preparation for submitting 09:59:38	6 yet, so we're sitting here today not entirely 10:02:24
7 your report in this case? 09:59:41	7 sure what it fully contains, the production, 10:02:28
8 A. No. 09:59:42	8 because it was made so close in time to 10:02:30
9 MR. MICHAELSON: I'd like to mark 09:59:47	9 the deposition. I guess I'll focus on No. 6. 10:02:32
10 as Exhibit 9 09:59:48	10 Is there an objection to No. 6? 10:02:38
11 (Exhibit 9 marked for 10:00:13	11 MR. SPEAR: I don't believe so, 10:02:40
12 identification.) 10:00:15	12 other than just I don't think we found 10:02:42
13 Q. I handed you a document marked Defense 10:00:21	13 anything. Go ahead. 10:02:43
14 Exhibit 9 which is titled on the first page 10:00:31	14 Q. I'll direct your attention to Request No. 6. 10:02:45
15 Defendants' Notice of Deposition of Steven P. 10:00:33	15 A. Yes. 10:02:53
16 Feinstein with a Request For Documents. 10:00:36	16 Q. No. 6 is a request for all of your public 10:02:53
17 It's a four-page exhibit. Are you familiar 10:00:40	17 statements, publications, writings, notes 10:02:56
18 with this document? 10:00:45	18 slides or presentations relating to XRP, 10:02:58
19 A. Yes. 10:00:47	19 Ripple, cryptocurrency or any other 10:03:02
20 Q. You've seen it before? 10:00:47	20 blockchain technology. Do you see that? 10:03:05
21 A. Yes. 10:00:49	21 A. I do. 10:03:06
22 Q. Do you understand that you're appearing here 10:00:50	22 Q. Do you have any documents responsive to 10:03:06
23 today pursuant to this notice of deposition? 10:00:56	23 this request? 10:03:08
24 A. I'll take your word for it. I was asked to 10:01:00	24 A. Depends on how one interprets "relating." I 10:03:09
25 appear here and that's why I'm here. It's 10:01:04	25 interpreted "relating" to mean that it 10:03:13
Page 19	Page 21

	7
1 specifically mentions these words, "XRP, 10:03:16	1 A. Again, it depends on I'm not a lawyer 10:06:03
2 Ripple, cryptocurrency or any other 10:03:24	2 so it depends on how one is defining 10:06:06
3 blockchain technology," and I believe I have 10:03:27	3 "responsive to," and that was a decision 10:06:09
4 no such statements, publications, writings 10:03:31	4 and determination made by counsel. Let me 10:06:12
5 that specifically mention these words or 10:03:37	5 elaborate, because I did not turn over to 10:06:17
6 topics, although, of course, these topics 10:03:39	6 counsel reports or testimony that's covered 10:06:19
7 are subsumed within the are covered within 10:03:42	7 by protective orders that preclude my 10:06:23
8 the field of financial economics in general. 10:03:46	8 making them public. 10:06:26
9 I didn't provide every statement that relates 10:03:50	9 Q. Okay. 10:06:27
10 to finance, but I believe that nothing was 10:03:53	10 A. But everything else I endeavored to collect 10:06:32
11 provided here because I have no statements 10:03:58	11 and provided to plaintiff's counsel. 10:06:36
12 and documentation that specifically cites 10:04:01	12 Plaintiff's counsel made a determination as 10:06:43
13 XRP or Ripple and so on. 10:04:04	13 to what to give to you, is my understanding. 10:06:44
14 Q. I see. So I understand you to be saying that 10:04:06	14 Q. Okay. 10:06:46
15 you have made public statements, publications 10:04:10	15 MR. SPEAR: Just for the record, 10:06:51
16 concerning finance, correct? 10:04:13	16 whatever information just so we don't 10:06:53
17 A. That's right, and finance applies to the 10:04:14	beat around the bush, whatever they gave us 10:06:56
analysis and study of finance applies to XRP 10:04:19	18 in response to No. 4 we just produced. We 10:06:56
19 and Ripple, but I didn't believe that's what 10:04:22	19 didn't share it beyond what they gave us. 10:06:59
20 you meant by this Statement 6 request. 10:04:24	20 MR. MICHAELSON: Okay. 10:07:03
21 Q. Okay. The publications, focusing on 10:04:26	21 MR. SPEAR: It's the same for No. 5. 10:07:18
22 publications for a moment. The publications 10:04:30	22 MR. MICHAELSON: Mark this No. 10. 10:07:26
23 that you've authored concerning finance don't 10:04:33	23 (Exhibit 10 marked for 10:07:28
24 mention XRP or Ripple, correct? 10:04:36	24 identification.) 10:07:29
25 A. That's correct. 10:04:39	25 Q. Before moving on to Exhibit 10, just a last 10:07:40
Page	22 Page 24
1 Q. They don't mention cryptocurrency? 10:04:40	1 question on Exhibit 9, request, document 10:08:10
	•
2 A. Correct. 10:04:42	2 Request No. 6. I just want to make sure 10:08:15
3 Q. And they don't mention any other blockchain 10:04:43	3 that you do not have any notes, class notes 10:08:26
4 technology? 10:04:47	4 that mention XRP, Ripple, cryptocurrency 10:08:35
5 A. Again correct. 10:04:47	5 or any other blockchain technology? 10:08:39
6 Q. Do they mention digital assets? 10:04:48	6 A. Correct, not class notes. Again, 10:08:45
7 A. No. 10:04:50	7 specifically class notes, notes I use for 10:08:52
8 Q. Virtual currencies? 10:04:50	8 teaching, no. I believe I do not have any 10:08:55
9 A. To the best of my recollection, no. 10:04:52	9 that specifically mention XRP, Ripple or 10:09:01
10 Q. How about Bitcoin? 10:04:55	10 cryptocurrency. 10:09:05
11 A. No. 10:04:56	11 Q. Or any other blockchain technology? 10:09:07
12 Q. Ethereum? 10:04:56	12 A. Correct. 10:09:09
13 A. No. 10:05:00	13 Q. Slides, lecture outlines, do you have any 10:09:10
	14 slides or lecture outlines that mention XRP, 10:09:14
TIPE OF THE INC. TO THE CONTROL OF THE PROPERTY OF THE PROPERT	
14 Q. I'd like to direct your attention to Request 10:05:00	
15 No. 4, all opinions, reports, testimony 10:05:33	15 Ripple, cryptocurrency or any other 10:09:17
15 No. 4, all opinions, reports, testimony 10:05:33 16 and/or declarations you submitted that 10:05:39	15 Ripple, cryptocurrency or any other 10:09:17 16 blockchain technology? 10:09:21
15 No. 4, all opinions, reports, testimony 10:05:33 16 and/or declarations you submitted that 10:05:39 17 pertain to damages in cases involving or 10:05:41	15 Ripple, cryptocurrency or any other 10:09:17 16 blockchain technology? 10:09:21 17 A. Correct. 10:09:22
15 No. 4, all opinions, reports, testimony 10:05:33 16 and/or declarations you submitted that 10:05:39 17 pertain to damages in cases involving or 10:05:41 18 related to state or federal securities 10:05:45	15 Ripple, cryptocurrency or any other 10:09:17 16 blockchain technology? 10:09:21 17 A. Correct. 10:09:22 18 Q. Correct, you don't have any? 10:09:23
15 No. 4, all opinions, reports, testimony 10:05:33 16 and/or declarations you submitted that 10:05:39 17 pertain to damages in cases involving or 10:05:41 18 related to state or federal securities 10:05:45 19 actions over the past ten years. Do you 10:05:48	15 Ripple, cryptocurrency or any other 10:09:17 16 blockchain technology? 10:09:21 17 A. Correct. 10:09:22 18 Q. Correct, you don't have any? 10:09:23 19 A. I do not have those. 10:09:25
15 No. 4, all opinions, reports, testimony 10:05:33 16 and/or declarations you submitted that 10:05:39 17 pertain to damages in cases involving or 10:05:41 18 related to state or federal securities 10:05:45	15 Ripple, cryptocurrency or any other 10:09:17 16 blockchain technology? 10:09:21 17 A. Correct. 10:09:22 18 Q. Correct, you don't have any? 10:09:23 19 A. I do not have those. 10:09:25 20 Q. And the notes that you paused for a moment 10:09:27
15 No. 4, all opinions, reports, testimony 10:05:33 16 and/or declarations you submitted that 10:05:39 17 pertain to damages in cases involving or 10:05:41 18 related to state or federal securities 10:05:45 19 actions over the past ten years. Do you 10:05:48	15 Ripple, cryptocurrency or any other 10:09:17 16 blockchain technology? 10:09:21 17 A. Correct. 10:09:22 18 Q. Correct, you don't have any? 10:09:23 19 A. I do not have those. 10:09:25
15 No. 4, all opinions, reports, testimony 10:05:33 16 and/or declarations you submitted that 10:05:39 17 pertain to damages in cases involving or 10:05:41 18 related to state or federal securities 10:05:45 19 actions over the past ten years. Do you 10:05:48 20 see that request? 10:05:50	15 Ripple, cryptocurrency or any other 10:09:17 16 blockchain technology? 10:09:21 17 A. Correct. 10:09:22 18 Q. Correct, you don't have any? 10:09:23 19 A. I do not have those. 10:09:25 20 Q. And the notes that you paused for a moment 10:09:27
15 No. 4, all opinions, reports, testimony 10:05:33 16 and/or declarations you submitted that 10:05:39 17 pertain to damages in cases involving or 10:05:41 18 related to state or federal securities 10:05:45 19 actions over the past ten years. Do you 10:05:48 20 see that request? 10:05:50 21 A. I do. 10:05:50	15 Ripple, cryptocurrency or any other 10:09:17 16 blockchain technology? 10:09:21 17 A. Correct. 10:09:22 18 Q. Correct, you don't have any? 10:09:23 19 A. I do not have those. 10:09:25 20 Q. And the notes that you paused for a moment 10:09:27 21 on notes. Do you have some kind of notes 10:09:29
15 No. 4, all opinions, reports, testimony 10:05:33 16 and/or declarations you submitted that 10:05:39 17 pertain to damages in cases involving or 10:05:41 18 related to state or federal securities 10:05:45 19 actions over the past ten years. Do you 10:05:48 20 see that request? 10:05:50 21 A. I do. 10:05:50 22 Q. Did you provide all documents responsive 10:05:51	15 Ripple, cryptocurrency or any other 10:09:17 16 blockchain technology? 10:09:21 17 A. Correct. 10:09:22 18 Q. Correct, you don't have any? 10:09:23 19 A. I do not have those. 10:09:25 20 Q. And the notes that you paused for a moment 10:09:27 21 on notes. Do you have some kind of notes 10:09:29 22 other than class notes that mention XRP, 10:09:31
15 No. 4, all opinions, reports, testimony 10:05:33 16 and/or declarations you submitted that 10:05:39 17 pertain to damages in cases involving or 10:05:41 18 related to state or federal securities 10:05:45 19 actions over the past ten years. Do you 10:05:48 20 see that request? 10:05:50 21 A. I do. 10:05:50 22 Q. Did you provide all documents responsive 10:05:51 23 to this request to your counsel? 10:05:58	15 Ripple, cryptocurrency or any other 10:09:17 16 blockchain technology? 10:09:21 17 A. Correct. 10:09:22 18 Q. Correct, you don't have any? 10:09:23 19 A. I do not have those. 10:09:25 20 Q. And the notes that you paused for a moment 10:09:27 21 on notes. Do you have some kind of notes 10:09:29 22 other than class notes that mention XRP, 10:09:31 23 Ripple, cryptocurrency or other blockchain 10:09:34

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1		
3 Something I wrote about in my report or 10.59/23 4 expressed as an opinion. There are 10.59/26 5 representations and allegations from both 10.59/34 6 sides in this case about what XEP was 10.59/37 10.59/	1 of some debate that has, in my opinion, 10:59:19	1 methodology? 11:02:24
4 expressed as an opinion. There are 10:59:26 5 representations and allegations from both 10:59:34 5 representations and allegations from both 10:59:37 7 used for and how it would be used and why 10:59:45 8 it had value, whether the ledger was 10:59:45 9 centralized or decentralized, for example, 10:59:45 10 put none of that had any bearing on my 10:59:51 11 opinions. 10:59:53 12 Q. So whether XRP has utility or not have any 10:59:54 13 bearing on your opinion? 11:00:05 14 MR. SPFAR: Objection, scope. 11:00:06 15 A. Well, my opinion as spelled out in this 11:00:07 16 report is that there's a common method for 11:00:10 17 computing damages for all class members. 11:00:14 18 The common method is consistent with 11:00:19 19 plaintiff's theory of liability, and It ay 11:00:27 20 out what that method is. That is really 11:00:27 21 what I wrote about in this report, and so 11:00:33 23 other crypto digital assets did not matter. 11:00:41 24 A. St is here now, that's my thinking. 11:00:46 25 Q. Sitting here today, do you have an 11:00:18 6 not impact the formula used for calculating 11:00:18 6 not impact the formula used for calculating 11:00:18 7 the profit or loss and the damages. 11:00:18 8 Pages 50 14 MR. SPFAR: Objection for profit or 11:00:19 15 A. Well, it could certuinly impact the profit or loss and the damages. 11:00:37 21 what I wrote about in this report and so 11:00:38 22 could impact calculation of profit or 11:00:18 23 not make the profit or loss and the damages. 11:00:18 24 A. Well, it could certuinly impact the profit or 11:00:18 25 Q. Sitting here today, do you have an 11:00:29 26 yard for calculating in finance an 1:00:18 27 Q. So so mare aware that some XRP exchanged 11:01:29 28 (Q. Sitting here today, do you not whether 11:01:37 29 (Q. So you need information contained in the 11:02:35 20 (Q. So you need information contained in the 11:02:35 21 (Q. So you need information contained in the 11:02:35 22 (Q. Sitting here toddy, do you need the profit or 10:00:00 23 (Q. Where XRP is exchanged pursuant t	2 no bearing on my opinions. It's not 10:59:21	2 A. Yes. 11:02:25
5 Septementations and allegations from both 10.59-34	3 something I wrote about in my report or 10:59:23	3 Q. Does that methodology need to take into 11:02:25
6 sides in this case about what XRP was 10.59.37	4 expressed as an opinion. There are 10:59:26	4 account the contractual terms that are 11:02:28
1.00.27	5 representations and allegations from both 10:59:34	5 expressed in the bilateral contract? 11:02:31
8	6 sides in this case about what XRP was 10:59:37	6 A. Just the prices and the quantities and the 11:02:33
9 centralized or decentralized, for example, 10-59-47 10 but none of that had any hearing on my 10-59-51 10 contract to perform that calculation. 11-02-52 11-02-53 12 correct? 11-02-55 12 correct? 11-02-55 13 hearing on your opinion? 11-00-05 14 hearing on your opinion? 11-00-05 13 hearing on your opinion? 11-02-55 14 hearing on your opinion as spelled out in his 11-00-06 15 hearing on your opinion as spelled out in his 11-00-07 15 hearing on your opinion as spelled out in his 11-00-07 15 hearing on your opinion as spelled out in his 11-00-07 15 hearing on your opinion as spelled out in his 11-00-10 15 compating datages for all class members 11-00-10 11-00-10 15 compating datages for all class members 11-00-10 11-00-	7 used for and how it would be used and why 10:59:41	7 times. Prices, quantities, the form of 11:02:35
10 but none of that had any bearing on my 10.59.51 11 10 11 12 12 13 14 15 15 15 16 16 15 15 16 16	8 it had value, whether the ledger was 10:59:45	8 the consideration, the time the transaction 11:02:39
11	9 centralized or decentralized, for example, 10:59:47	9 took place is all that you would need. 11:02:41
12 Q. So whether XRP has utility or not have any 10.59;54 13 bearing on your opinion? 11.00:05 11.00:05 13 MR. SPEAR: Objection. 11:02:55 12:05 13 MR. SPEAR: Objection. 11:02:57 15 A. Well, my opinion as spelled out in this 11:00:07 15 that describe any transaction, the same 11:02:59 11:03:01 10:05 11	10 but none of that had any bearing on my 10:59:51	10 Q. So you need information contained in the 11:02:43
13 Bearing on your opinion? 11:00:05 13 MR. SPEAR: Objection, 11:02:55 MR. SPEAR: Objection, scope. 11:00:06 14 A. No., just the standard facts and details 11:02:57 15 A. Well, my opinion as spelled out in this 11:00:07 15 that describe any transaction, the same 11:02:59 15 that describe any transaction, the same 11:02:59 16 report is that there's a common method for 11:00:10 16 common information that would commonly brown 11:00:301 11:00:30	11 opinions. 10:59:53	11 contract to perform that calculation, 11:02:52
MR, SPEAR: Objection, scope. 11:00:06	12 Q. So whether XRP has utility or not have any 10:59:54	12 correct? 11:02:55
15 A. Well, my opinion as spelled out in this 11-00:07 15 that describe any transaction, the same 11:02:59	13 bearing on your opinion? 11:00:05	13 MR. SPEAR: Objection. 11:02:55
16 report is that there's a common method for 11:00:10 16 common information that would commonly be 11:03:01 17 computing damages for all class members. 11:00:14 18 of calculating that class member's damages. 11:03:07 11:03:07 12:00	14 MR. SPEAR: Objection, scope. 11:00:06	14 A. No, just the standard facts and details 11:02:57
17 computing damages for all class members. 11:00:14 17 supplied by any class member for purposes 11:03:04 11:03:07 11:03:10 11:03:07 11:03:10 11:03:07 11:03:10 11:03:11 11:03:11 11:03:11 11:03:11 11:03:11 11:03:12	15 A. Well, my opinion as spelled out in this 11:00:07	15 that describe any transaction, the same 11:02:59
18	report is that there's a common method for 11:00:10	16 common information that would commonly be 11:03:01
19	17 computing damages for all class members. 11:00:14	17 supplied by any class member for purposes 11:03:04
20	The common method is consistent with 11:00:19	18 of calculating that class member's damages. 11:03:07
21	19 plaintiff's theory of liability, and I lay 11:00:22	19 Q. Could the contract, though, supply, for 11:03:10
22 specific idiosyncracies of XRP versus 11:00:37 22 In any damage calculation in any class action 11:03:18 11:03:20 23 Itigation, you need to know prices. 11:03:21 24 As I sit here now, that's my thinking. 11:00:46 24 Sometimes you my understanding is that 11:03:26 25 Page 50 26 Page 52 27 28 28 29 29 29 29 29 29	20 out what that method is. That is really 11:00:27	20 example, the price? 11:03:12
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15 A. Some trading took place that way, is my 11:01:50 16 understanding. 11:01:54 17 Q. So you are aware that some XRP exchanged 11:01:54 18 hands pursuant to bilateral contracts? 11:01:59 19 A. Well, we usually call that in finance an 11:02:03 19 A. Well, we usually call that in finance an 11:02:03 19 a common methodology for all class members 11:05:11 20 over-the-counter transaction, and my 11:02:05 21 understanding is there were some 11:02:07 22 over-the-counter transactions. 11:02:09 23 Q. Where XRP is exchanged pursuant to an 11:02:12 24 over-the-counter transaction, can profit or 11:02:19 25 loss be calculated pursuant to a common 11:02:20 16 conclusion which is I think what you're 11:04:54 17 referring to, you opine here on Paragraph 16, 11:04:58 18 Page 4, the damages can be computed using 11:05:03 19 a common methodology for all class members 11:05:11 20 and the common classwide methodology for 11:05:16 21 understanding is there were some 11:02:07 22 involves the straightforward application of 11:05:26 23 Q. Where XRP is exchanged pursuant to an 11:02:12 24 over-the-counter transaction, can profit or 11:02:19 25 Q. Sir, are you opining you're opining that 11:05:35	13 Q. A contract between two parties to buy or 11:01:47	13 calculated in a class action securities case. 11:04:28
11:01:54 12	14 sell an asset. 11:01:49	14 Q. So turning to Exhibit 10 here, your report, 11:04:38
17 Q. So you are aware that some XRP exchanged 11:01:54 18 hands pursuant to bilateral contracts? 11:01:59 18 A. Well, we usually call that in finance an 11:02:03 19 A. Well, we usually call that in finance an 11:02:05 20 over-the-counter transaction, and my 11:02:07 21 understanding is there were some 11:02:07 22 over-the-counter transactions. 11:02:09 23 Q. Where XRP is exchanged pursuant to an 11:02:12 24 over-the-counter transaction, can profit or 11:02:19 25 loss be calculated pursuant to a common 11:02:20 26 Transaction in the damages can be computed using 11:05:03 27 a common methodology for all class members 11:05:11 28 a common methodology for all class members 11:05:16 29 and the common classwide methodology for 11:05:16 20 involves the straightforward application of 11:05:26 21 statutory arithmetic formulas? 11:05:30 22 over-the-counter transaction, can profit or 11:02:19 23 Statutory arithmetic formulas? 11:05:34 25 loss be calculated pursuant to a common 11:02:20 26 Q. Sir, are you opining you're opining that 11:05:35	15 A. Some trading took place that way, is my 11:01:50	15 I'd refer you to Page 4, you express your 11:04:50
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19 A. Well, we usually call that in finance an 11:02:03 19 a common methodology for all class members 11:05:11 20 over-the-counter transaction, and my 11:02:05 20 and the common classwide methodology for 11:05:16 21 understanding is there were some 11:02:07 21 determining damages for all XRP purchasers 11:05:21 22 over-the-counter transactions. 11:02:09 22 involves the straightforward application of 11:05:26 23 Q. Where XRP is exchanged pursuant to an 11:02:12 23 statutory arithmetic formulas? 11:05:30 24 A. Yes. 11:05:34 25 loss be calculated pursuant to a common 11:02:20 25 Q. Sir, are you opining you're opining that 11:05:35	17 Q. So you are aware that some XRP exchanged 11:01:54	17 referring to, you opine here on Paragraph 16, 11:04:58
20 over-the-counter transaction, and my 11:02:05 20 and the common classwide methodology for 11:05:16 21 understanding is there were some 11:02:07 21 determining damages for all XRP purchasers 11:05:21 22 over-the-counter transactions. 11:02:09 22 involves the straightforward application of 11:05:26 23 Q. Where XRP is exchanged pursuant to an 11:02:12 23 statutory arithmetic formulas? 11:05:30 24 A. Yes. 11:05:34 25 loss be calculated pursuant to a common 11:02:20 25 Q. Sir, are you opining you're opining that 11:05:35	hands pursuant to bilateral contracts? 11:01:59	18 Page 4, the damages can be computed using 11:05:03
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23 Q. Where XRP is exchanged pursuant to an 11:02:12 23 statutory arithmetic formulas? 11:05:30 24 over-the-counter transaction, can profit or 11:02:19 24 A. Yes. 11:05:34 25 loss be calculated pursuant to a common 11:02:20 25 Q. Sir, are you opining you're opining that 11:05:35	21 understanding is there were some 11:02:07	21 determining damages for all XRP purchasers 11:05:21
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25 loss be calculated pursuant to a common 11:02:20 25 Q. Sir, are you opining you're opining that 11:05:35	23 Q. Where XRP is exchanged pursuant to an 11:02:12	23 statutory arithmetic formulas? 11:05:30
	24 over-the-counter transaction, can profit or 11:02:19	24 A. Yes. 11:05:34
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1 damages can be computed using a common 11:05:47	1 interest rate should be applied. 11:08:42
2 methodology, correct? 11:05:51	2 Q. Anything else? 11:08:44
3 A. Yes. 11:05:51	3 A. The formula is on Page 5. Those are the 11:08:50
4 Q. Are you opining that they can be computed 11:05:52	4 arguments of the formula that we just 11:08:50
5 using common evidence? 11:05:56	5 covered, so no. 11:08:56
6 A. I think "evidence" has a specific legal 11:05:58	6 Q. You mentioned that you need information as 11:08:56
7 meaning, and I'm not a lawyer. So if you 11:06:00	7 to whether there had been a sale. What did 11:08:59
8 mean data, that the same data, the same 11:06:05	8 you mean by that? 11:09:02
9 type of data is needed from each claimant, 11:06:11	9 A. Well, you would need to know. I mean, the 11:09:02
10 that's true, the same type of data, and I 11:06:13	10 class members are people who purchased and 11:09:04
11 mentioned already what that data would be. 11:06:17	11 then sold XRP and sustained a loss. These 11:09:08
12 "Evidence" is a legal term, that I can answer 11:06:20	12 are the proposed class members, or those 11:09:12
13 the question if you explain it better. 11:06:22	13 who still own XRP, they purchased it and 11:09:16
14 Q. Got it. Well, I guess what I'm hearing you 11:06:24	14 still own it. So notice that Paragraph 19 11:09:19
say is that the claimant would need to come 11:06:28	15 has a formula for one and 20 has got the 11:09:23
16 forth with the information concerning their 11:06:30	16 adaptation of that same formula for the 11:09:28
purchase or sale in order for the calculation 11:06:32	17 other, so you need to know whether they 11:09:30
18 to be run? 11:06:36	18 still own XRP or not. 11:09:32
19 A. That's one way to do it. There are other 11:06:37	19 Q. I see. So the information as to whether 11:09:33
20 ways to calculate damages, but to apply the 11:06:39	20 there has been a sale is important to know 11:09:40
21 common formula that's in my report, one would 11:06:42	21 which, whether they're in Paragraphs 19 or 11:09:43
22 need price and quantity data for purchases 11:06:45	22 20? 11:09:45
23 and sales, if there was a sale for anybody 11:06:50	23 A. Right. 11:09:48
24 whose damages are going to be calculated, 11:06:56	24 Q. Okay. And then you said you would need to 11:09:48
so it's common data and it's common formulas 11:06:59	25 know the form of consideration paid. What 11:09:50
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11.07.02	
1 that are used. 11:07:03	1 did you mean by that? 11:09:52
2 Q. So you need the price data and you need 11:07:03	1 did you mean by that? 11:09:52 2 A. Was Bitcoin tendered for the XRP or was 11:09:53
2 Q. So you need the price data and you need 11:07:03	2 A. Was Bitcoin tendered for the XRP or was 11:09:53
2 Q. So you need the price data and you need 11:07:03 3 the quantity data? 11:07:10	2 A. Was Bitcoin tendered for the XRP or was 11:09:53 3 it Tether or U.S. dollars, and you need to 11:10:01
2 Q. So you need the price data and you need 11:07:03 3 the quantity data? 11:07:10 4 A. Right, how much did the person pay and 11:07:11	2 A. Was Bitcoin tendered for the XRP or was 11:09:53 3 it Tether or U.S. dollars, and you need to 11:10:01 4 know that so that you can translate the 11:10:03
2 Q. So you need the price data and you need 11:07:03 3 the quantity data? 11:07:10 4 A. Right, how much did the person pay and 11:07:11 5 when did they pay it and how much XRP did 11:07:15	2 A. Was Bitcoin tendered for the XRP or was 11:09:53 3 it Tether or U.S. dollars, and you need to 11:10:01 4 know that so that you can translate the 11:10:03 5 consideration, you can value the 11:10:04
2 Q. So you need the price data and you need 11:07:03 3 the quantity data? 11:07:10 4 A. Right, how much did the person pay and 11:07:11 5 when did they pay it and how much XRP did 11:07:15 6 they receive, and the same thing on the 11:07:21	2 A. Was Bitcoin tendered for the XRP or was 11:09:53 3 it Tether or U.S. dollars, and you need to 11:10:01 4 know that so that you can translate the 11:10:03 5 consideration, you can value the 11:10:04 6 consideration at the time of the 11:10:06
2 Q. So you need the price data and you need 11:07:03 3 the quantity data? 11:07:10 4 A. Right, how much did the person pay and 11:07:11 5 when did they pay it and how much XRP did 11:07:15 6 they receive, and the same thing on the 11:07:21 7 sale, if there was a sale, or we would need 11:07:24	2 A. Was Bitcoin tendered for the XRP or was 11:09:53 3 it Tether or U.S. dollars, and you need to 11:10:01 4 know that so that you can translate the 11:10:03 5 consideration, you can value the 11:10:04 6 consideration at the time of the 11:10:06 7 transactions. 11:10:07
2 Q. So you need the price data and you need 11:07:03 3 the quantity data? 11:07:10 4 A. Right, how much did the person pay and 11:07:11 5 when did they pay it and how much XRP did 11:07:15 6 they receive, and the same thing on the 11:07:21 7 sale, if there was a sale, or we would need 11:07:24 8 to know that there was no sale. 11:07:32 9 Q. Is any other data needed aside from the 11:07:34 10 price data and quantity data? 11:07:38	2 A. Was Bitcoin tendered for the XRP or was 11:09:53 3 it Tether or U.S. dollars, and you need to 11:10:01 4 know that so that you can translate the 11:10:03 5 consideration, you can value the 11:10:04 6 consideration at the time of the 11:10:06 7 transactions. 11:10:07 8 Q. If someone paid Bitcoin, used Bitcoin to 11:10:08 9 purchase XRP, wouldn't the value of the 11:10:17 10 consideration paid be the amount of Bitcoin 11:10:22
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2 Q. So you need the price data and you need 11:07:03 3 the quantity data? 11:07:10 4 A. Right, how much did the person pay and 11:07:11 5 when did they pay it and how much XRP did 11:07:15 6 they receive, and the same thing on the 11:07:21 7 sale, if there was a sale, or we would need 11:07:24 8 to know that there was no sale. 11:07:32 9 Q. Is any other data needed aside from the 11:07:34 10 price data and quantity data? 11:07:38 11 A. I said price data, price, quantity, both at 11:07:40 12 the time of sale and the time, time of 11:07:45 13 purchase and time of sale information as to 11:07:50	2 A. Was Bitcoin tendered for the XRP or was 11:09:53 3 it Tether or U.S. dollars, and you need to 11:10:01 4 know that so that you can translate the 11:10:03 5 consideration, you can value the 11:10:04 6 consideration at the time of the 11:10:06 7 transactions. 11:10:07 8 Q. If someone paid Bitcoin, used Bitcoin to 11:10:08 9 purchase XRP, wouldn't the value of the 11:10:17 10 consideration paid be the amount of Bitcoin 11:10:22 11 they paid for the XRP? 11:10:25 12 A. It would be the value of the Bitcoin paid. 11:10:27 13 Q. Why not just the so the value of the 11:10:29 14 Bitcoin? 11:10:32
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1 little bit. It was helpful to hear your 11:11:04	1 a person who obtained XRP in exchange for 11:14:14
2 explanation. 11:11:06	2 a tangible good? 11:14:19
Going back to Paragraph 16, you 11:11:07	3 A. Yes. 11:14:20
4 express that your opinion here relates to a 11:11:12	4 Q. Just to be clear on the scope of your 11:14:20
5 common classwide methodology for determining 11:11:16	5 opinion, it sounds like it is not part of 11:14:35
6 damages for all XRP purchasers. What does 11:11:18	6 the scope of your opinion who is or who 11:14:41
7 it mean to purchase XRP? 11:11:26	7 is not a purchaser of XRP? 11:14:43
8 MR. SPEAR: Objection to form. 11:11:28	8 A. That's correct. 11:14:48
9 A. It's almost a philosophical question. To 11:11:32	9 Q. So you're not opining on who is or is not 11:14:48
10 pay a counterparty and receive XRP, quid pro 11:11:37	10 a purchaser of XRP, correct? 11:14:54
11 quo in exchange for that payment. 11:11:44	11 A. Correct. 11:14:56
12 Q. So if you receive XRP as a gift, are you a 11:11:51	12 Q. Does your opinion encompass the 11:14:56
13 purchaser of XRP? 11:11:59	13 identification of people who are purchasers 11:15:01
14 MR. SPEAR: Objection, calls for a 11:12:00	14 of XRP? 11:15:05
15 legal conclusion. 11:12:01	15 A. How is that different from the previous 11:15:06
16 A. I would have to say I don't know. That's a 11:12:03	16 question? 11:15:09
17 legal determination. 11:12:06	17 Q. The first question is more of a conceptual 11:15:10
18 Q. Can your methodology apply to individuals 11:12:07	18 question of like categorically speaking, 11:15:15
19 who obtained XRP via gift? 11:12:11	who would count or not in the determination 11:15:18
20 A. I'm not sure. That's something I would have 11:12:22	20 of who is a purchaser of XRP. The second 11:15:20
21 to think about. 11:12:25	21 is actually like identifying the class 11:15:21
22 Q. Do you have any understanding as to whether 11:12:26	22 members. 11:15:23
23 Ripple has employees? 11:12:28	23 A. No. I haven't been asked to identify class 11:15:24
24 A. I'm sure they do have employees. 11:12:32	24 members and nothing about that is expressed 11:15:26
25 Q. To the extent a Ripple employee receives 11:12:34	25 in my report. 11:15:28
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1 XRP as a form of their compensation, are 11:12:37	1 Q. Okay. Does your opinion encompass price 11:15:29
2 they a purchaser of XRP? 11:12:43	2 correlation between XRP and any other 11:15:35
3 MR. SPEAR: Objection, calls for 11:12:45	3 digital asset? 11:15:37
4 a legal conclusion. 11:12:46	4 A. What do you mean by "correlation"? 11:15:39
5 A. Again, that does sound like the answer 11:12:47	5 Q. Whether the price or value of XRP is 11:15:41
6 to that question must be covered somewhere 11:12:50	6 correlated with movements in prices of 11:15:44
7 in the law, and I'm not a lawyer. I can 11:12:53	7 other digital assets. 11:15:46
8 answer economic questions. I don't think 11:12:57	8 A. I have expressed that to apply the formula, 11:15:48
9 that is an economic question, so I think 11:13:00	9 one should convert whatever the form of 11:15:53
10 I should just say I don't know for sure. 11:13:03	10 the consideration was to the value of the 11:15:57
11 I don't want to say, give an answer that's 11:13:04	11 consideration. So exchange rates and 11:15:59
12 contrary to established law, case law or 11:13:06	valuations are relevant to apply the common 11:16:04
13 statute. I think the case law and statute 11:13:10	13 methodology commonly for all class members, 11:16:09
14 should speak for itself and legal experts 11:13:12	but correlation usually means movement 11:16:12
15 can decide that. 11:13:14	over time, and that I haven't expressed 11:16:15
16 Q. Can the common methodology that you propose 11:13:15	anything about movement over time. 11:16:18
17 in your opinion be applied to those who 11:13:20	17 Q. Okay. Yes, that's what I was asking about, 11:16:20
18 acquire XRP as compensation for their work? 11:13:24	whether the price of XRP correlates over 11:16:24
19 A. I think it can. 11:13:28	19 time with the price of digital assets, not 11:16:27
20 Q. Do you have an understanding as to whether 11:13:31	20 something that's the subject of your opinion, 11:16:31
21 someone could sell a tangible good like a 11:13:46	21 correct? 11:16:32
11110.10	
22 cup of coffee in exchange for XRP? 11:13:51	22 A. Say that again, please? 11:16:33
 cup of coffee in exchange for XRP? 11:13:51 A. I think that's possible. 11:13:56 	22 A. Say that again, please? 11:16:33 23 Q. It's fair to say that your opinion does not 11:16:35
23 A. I think that's possible. 11:13:56	23 Q. It's fair to say that your opinion does not 11:16:35
23 A. I think that's possible. 11:13:56 24 Q. Can your common methodology be used to 11:14:06	23 Q. It's fair to say that your opinion does not 11:16:35 24 encompass whether the price of XRP correlates 11:16:40
23 A. I think that's possible. 11:13:56	23 Q. It's fair to say that your opinion does not 11:16:35 24 encompass whether the price of XRP correlates 11:16:40

1 over time? 11:16:46	1 out that if there's a determination that 11:19:45
2 A. Right, I express no opinion about that 11:16:47	2 one doesn't need to translate the form 11:19:47
3 specifically. 11:16:50	3 of the consideration to the value of that 11:19:50
4 Q. Does your opinion encompass whether the 11:16:51	4 consideration in dollars, then that 11:19:51
5 price or value of XRP might vary across 11:17:01	5 methodology would also be common to all 11:19:53
6 exchanges at any given point in time? 11:17:08	6 class members. I just want to point out 11:19:55
7 A. I considered that. I believe given that, 11:17:13	7 that regardless of whether one does the 11:19:58
8 though that may be the case, these formulas, 11:17:19	8 translation or chooses not to do the 11:20:00
9 data exists such that these formulas can 11:17:23	9 translation, the methodology that's arrived 11:20:02
10 still be applied commonly for all class 11:17:27	10 at from making that determination will be 11:20:04
11 members. 11:17:29	11 common for all class remembers. I think 11:20:07
12 Q. So you agree it may be the case, that the 11:17:30	12 that's paramount and primary. 11:20:09
13 price of XRP varies at a given point in 11:17:35	13 However, if the methodology is to 11:20:12
14 time across exchanges? 11:17:38	14 translate forms of consideration to value 11:20:17
15 A. That may be the case, yes. 11:17:41	15 consideration in dollars, then you need 11:20:21
16 Q. And do you also agree that the price of, 11:17:42	16 exchange rates and Bloomberg provides them. 11:20:23
17 say, Bitcoin at a given point in time might 11:17:46	17 Q. To be clear, the methodology that you are 11:20:31
18 vary across exchanges? 11:17:49	18 putting forth in your opinion involves the 11:20:37
19 A. There seems to be evidence of that in the 11:17:52	19 conversion of consideration paid into U.S. 11:20:40
20 literature in the market, yes. It does 11:17:56	20 dollars? 11:20:44
21 not preclude calculation of damages commonly 11:17:58	21 A. My conclusion in Paragraph 16 is that the 11:20:45
22 for all class members. 11:18:04	22 methodology is common, and that conclusion 11:20:48
23 Q. You referred to evidence in the literature 11:18:05	23 holds firm whether we choose to translate 11:20:54
24 about price variation of Bitcoin across 11:18:09	24 the consideration into dollar value or 11:20:57
25 exchanges. What were you referring to? 11:18:12	25 choose not to translate the form of the 11:21:01
Page 62	Page 64
1 A. I can't cite an article specifically, but 11:18:15	1 consideration to dollar value. So it's 11:21:04
2 this is an observation that's been made. 11:18:18	2 still, the conclusion that I represent 11:21:06
3 Q. Sitting here today, do you have a sense 11:18:21	3 in Paragraph 16 holds regardless. The 11:21:12
4 of how large or small that variation might 11:18:23	4 examples I gave in Paragraphs 19 and 20, 11:21:16
5 be? 11:18:29	5 these examples do translate consideration 11:21:16
6 A. No, but I did check Bloomberg and the 11:18:29	6 form into consideration value, and for that 11:21:19
7 documentation in Bloomberg that they've 11:18:36	7 you need exchange rates, and I verified 11:21:21
8 arrived at analytics and a methodology for 11:18:38	8 that exchange rates are available. 11:21:26
9 producing data that according to Bloomberg 11:18:42	9 Q. This is helpful. In Paragraphs 19 and 20 11:21:28
represents the value of digital assets at 11:18:47	10 of your report, you put forward formulas for 11:21:37
11 various points in time, notwithstanding 11:18:49	11 calculating damages, correct? 11:21:40
that the trading price might be different on 11:18:52	12 A. Yes. 11:21:44
one exchange versus another. 11:18:55	13 Q. But what I hear you saying is these are 11:21:44
14 Q. Is this Bloomberg data to which you're 11:18:59	just examples of formulas that might be used, 11:21:49
referring something that you would use in 11:19:07	but there are other competing formulas that 11:21:52
the computation of gain or loss pursuant 11:19:10	16 might also be used to calculate damages. Is 11:21:54
17 to your methodology? 11:19:12	17 that a fair summary of your testimony? 11:21:57
18 A. You can. 11:19:14	18 MR. SPEAR: Objection. 11:21:58
19 Q. You referenced you needed to translate the 11:19:18	
20 consideration paid into U.S. dollars. So, 11:19:23	20 that should be used. I do understand that 11:22:03
21 for example, if someone bought XRP with 11:19:25	-
22 Bitcoin, you need to translate, under your 11:19:29	that's very similar, there may be a 11:22:09
23 methodology, the value of that Bitcoin into 11:19:33	determination that that other similar formula 11:22:12
24 U.S. dollars, correct? 11:19:36	24 is more appropriate, and I'm pointing out 11:22:15
25 A. Well, first of all, I just want to point 11:19:38 Page 63	25 that even if it were not these formulas but 11:22:19 Page 65
1 age 03	1 age 05

1 the very similar alternative formula, it 11:22:22	1 better model does involve converting the 11:24:43
2 would still be a common damage methodology 11:22:25	2 consideration into U.S. dollars, but you 11:24:49
3 for all class members. 11:22:28	3 have not yet opined on how that conversion 11:24:51
4 I do believe these are the correct 11:22:29	4 would be performed? 11:24:56
5 formulas and these are the formulas that 11:22:31	5 A. No, that's not true at all. It's the same 11:24:56
6 ought to be used, but I just want to point 11:22:33	6 model, how much you paid for XRP versus 11:25:03
7 out that my opinion in Paragraph 16 is 11:22:35	7 how much you got back when you sold your 11:25:06
8 maintained even if one were to modify this 11:22:37	8 XRP. If you got back less than you paid, 11:25:08
9 formula slightly in the way we've been 11:22:40	9 that's a loss, and how it's translated into 11:25:11
10 describing. 11:22:43	10 dollars, there's a slight tweak, there's 11:25:16
11 Q. You say a common methodology can be used 11:22:44	11 different ways of doing that. 11:25:19
to calculate damages, but what that 11:22:46	12 I think the best way to do it is 11:25:20
methodology is could take different forms? 11:22:48	13 to do the translation at the time of the 11:25:22
14 A. Well, two that I can think of that we've 11:22:51	14 transactions. I believe that's consistent 11:25:24
15 talked about, they're very similar, I believe 11:22:54	15 with the statute, the language in the 11:25:26
16 of those two, the formulas in Paragraphs 19 11:22:59	16 statute, and I verified that there are 11:25:29
17 and 20 are the correct ones. 11:23:02	17 databases that allow one to do that. In 11:25:33
18 Q. Okay. When you say we've talked about two, 11:23:04	18 fact, I provided defendants with an example 11:25:35
19 you're referring to one formula that would 11:23:07	19 of that calculation done. But at this point, 11:25:40
20 involve translating consideration paid into 11:23:09	20 I'm saying that I haven't yet calculated 11:25:42
22 method would be leaving the consideration 11:23:19	1
paid in whatever form it was paid, whether 11:23:21	23 altogether possible that exactly which 11:25:54
that be Bitcoin, Tether or Ethereum? 11:23:25	24 exchange rates to use, that's what I want to 11:25:59
25 A. Correct. 11:23:29 Page 66	25 focus on, exactly which database for the 11:26:02 Page 68
- 195	a nga sa
1 Q. In then in your model, the one that you're 11:23:29	1 exchange rates is not something that I 11:26:05
2 proposing in Paragraphs 19 and 20, there's 11:23:34	2 was asked to opine about or need to opine 11:26:11
3 this conversion into U.S. dollars, correct? 11:23:36	3 about in order to proffer the opinion that 11:26:14
4 A. Well, in order to calculate consideration, 11:23:39	4 it's a common damage methodology for all 11:26:17
5 one would convert the form of the 11:23:43	5 class members. 11:26:19
6 consideration to that dollar value of the 11:23:45	6 Q. So I have a bunch of questions about these 11:26:20
7 consideration. 11:23:47	7 exchange rates. Does the scope of your 11:26:29
8 Q. What is your proposal for what exchange 11:23:48	8 opinion include what exchange rate would be 11:26:34
9 rates would be used to translate, for 11:23:53	9 used to translate consideration paid into 11:26:39
10 example, Bitcoin or Ethereum into U.S. 11:23:56	10 U.S. dollars? 11:26:43
11 dollars? 11:23:58	11 A. No, it doesn't need to. We know that 11:26:45
12 A. What I check is that we have Bloomberg, 11:23:59	12 exchange rates exist. The choice of the 11:26:48
13 Bloomberg is a good source, it's 11:24:03	13 best, most appropriate, most reliable 11:26:53
14 reputable, but at this point I don't think 11:24:04	14 exchange rate data doesn't impact or 11:26:56
15 I have to I just want to reserve the 11:24:08	15 doesn't affect the opinion that it's a 11:27:03
option to consider it further. That's not 11:24:16	16 common damage methodology for all class 11:27:06
part of my opinion right now, which is the 11:24:18	17 members which is the opinion I'm offering 11:27:08
18 best data source to use. If I were to do 11:24:20	18 today and in this report. 11:27:10
19 damages, I might at a later date decide that 11:24:23	19 Q. You could imagine two different purchasers 11:27:11
20 there was a better data source. I know 11:24:26	20 of XRP, one who had just before buying XRP 11:27:14
21 that for sure there's at least Bloomberg, 11:24:28	21 converted U.S. dollars to Bitcoin and then 11:27:20
22 but my opinion at this point does not 11:24:31	22 used that Bitcoin to buy XRP. You can 11:27:24
23 encompass a determination that Bloomberg is 11:24:33	23 imagine another purchaser of XRP who had 11:27:26
24 the only or best data source to use. 11:24:35	24 just Bitcoin holdings in their Coinbase 11:27:29
25 Q. So you think that the preferred model, the 11:24:38 Page 67	25 account, for example, had been holding the 11:27:32

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1 Bitcoin for some period of time and they 11:27:34	1 witness' testimony. 11:30:03
2 used that Bitcoin to purchase XRP. What 11:27:36	2 A. I'm saying that that's within the realm 11:30:04
3 exchange rate would you propose is the 11:27:47	3 of possibility. It would still be a common 11:30:07
4 best exchange rate in each of those two 11:27:49	4 methodology. Personally, I think the best 11:30:09
5 scenarios? 11:27:51	5 methodology would be to use the value of 11:30:12
6 MR. SPEAR: Objection, scope. 11:27:52	6 the Bitcoin at the time of the transaction 11:30:15
7 A. As an economist, I think the best exchange 11:27:53	7 according to a reputable database. But 11:30:17
8 rate is the exchange rate at the time of 11:27:58	8 if there's some legal determination that 11:30:22
9 the transactions, although if there's a 11:28:00	9 overrides the economic analysis, what one 11:30:24
legal opinion that says no, it should be, 11:28:02	10 is left with still is a common methodology 11:30:29
11 consideration should be left in the form 11:28:07	11 for all class members. 11:30:31
12 until settlement or jury verdict, then you 11:28:09	12 Q. So what you personally think would be the 11:30:33
would use the exchange rates of the later 11:28:13	13 best methodology is the value of Bitcoin 11:30:35
14 date. 11:28:15	14 at the time of the transaction as determined 11:30:37
So as an economist, I have an 11:28:16	by a reputable database, and you have 11:30:42
opinion which is the best, which represents 11:28:17	16 Bloomberg in mind for that? 11:30:47
17 damages and I actually think that's most 11:28:21	17 A. Bloomberg is a reputable database. I haven't 11:30:48
18 consistent with the statute, language in the 11:28:23	yet determined whether it's the only or the 11:30:53
19 statute, but it doesn't change my opinion 11:28:26	19 best, but it's certainly available for this 11:30:54
20 about there being a common damage methodology 11:28:28	20 purpose. 11:30:56
21 if the law or the court or the parties agree 11:28:31	21 Q. Would you agree that if that were the 11:30:56
22 on a different time to do the translation. 11:28:34	methodology that were used, that the 11:30:58
23 Q. For the first of the two hypothetical 11:28:39	23 calculation of an individual purchaser's 11:31:00
24 purchasers that I mentioned who had 11:28:42	24 gain or loss might differ from their sort 11:31:01
25 transferred U.S. dollars into Bitcoin just 11:28:46	25 of real-world experience because, for 11:31:04
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1 before the transaction and then used the 11:28:49	1 example, they just acquired that Bitcoin 11:31:06
2 Bitcoin immediately to buy XRP, would 11:28:52	2 with dollars that cost them a little more or 11:31:09
3 the actual exchange rate that that person 11:28:58	3 less than what Bloomberg might say was the 11:31:11
4 obtained transferring U.S. dollars into 11:29:00	4 exchange rate at the time? 11:31:15
5 Bitcoin be the right to use or more of like 11:29:05	5 MR. SPEAR: Objection to form. 11:31:15
6 a general Bloomberg rate? 11:29:07	6 Objection to scope. 11:31:16
7 MR. SPEAR: Objection, scope. Go 11:29:10	7 A. If you've got different alternatives, the 11:31:18
8 ahead. 11:29:14	8 outcome of the different alternatives might 11:31:26
9 A. It's a hypothetical you're asking about. 11:29:14	9 be different. In the hypothetical you 11:31:29
10 I'm sure there are details of this 11:29:17	gave, it's hard to believe that it would be 11:31:32
11 hypothetical that are not explicated in 11:29:19	11 materially different. Bloomberg being a 11:31:34
12 your offering of the hypothetical. I would 11:29:24	12 reputable database seeks to assess what the 11:31:36
want to look at all the facts. Whatever 11:29:27	13 value of these different digital assets 11:31:41
14 the answer is, you're still left with a 11:29:31	14 actually are at a point in time, so that 11:31:45
15 common methodology for all class members. 11:29:35	15 would give you an assessment of the value 11:31:48
16 I kind of want to reserve the opportunity 11:29:38	16 of the consideration paid even if there 11:31:52
17 to think about that some more if it turns 11:29:40	17 had been a different transaction external to 11:31:54
18 out that that hypothetical is realistic. I 11:29:44	18 the XRP purchase at a different price. 11:31:59
19 think I'll leave it at that. 11:29:48	19 Q. Do crypto exchanges, to your knowledge, 11:32:11
20 Q. What I hear you saying is it could be that 11:29:49	20 typically charge transaction fees? 11:32:18
21 different exchange rates could be used 11:29:55	21 A. I'm not sure. I know there's a bid-ask 11:32:25
22 for different types of purchasers of XRP 11:29:56	22 spread. I just don't recall whether 11:32:29
23 depending on the circumstances of their 11:29:59	23 there's some might charge a commission 11:32:33
24 purchase? 11:30:02	24 on top of a bid-ask spread, some might not. 11:32:36
25 MR. SPEAR: Objection, misstates 11:30:02	25 I know there generally is a bid-ask spread 11:32:47
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1 if they included a bid-ask spread, the 01:14:25	1 thinks the LIFO or FIFO method is the 01:17:02
2 bid-ask spread transaction cost was included 01:14:28	2 better method, I think that's outside the 01:17:06
3 and incorporated, but I did not include 01:14:33	3 scope of his opinions, but that's the 01:17:08
4 commissions as a cost. 01:14:35	4 objection. I'm not instructing him not to 01:17:09
5 Q. When you say if a fee was included in the 01:14:39	5 answer. I'm objecting on scope grounds. 01:17:15
6 bid-ask spread, you mean that fee is 01:14:42	6 Q. Okay. When calculating Mr. Sostack's 01:17:20
7 baked into the transaction price that he 01:14:45	7 damages, do you recall whether he, whether 01:17:29
8 experiences, correct? 01:14:48	8 certain of his purchases involved Bitcoin? 01:17:35
9 A. Correct. 01:14:49	9 A. I'm sorry? 01:17:38
10 Q. Okay. Did you perform any analysis as to 01:14:50	10 Q. Did certain of his purchases involve Bitcoin? 01:17:38
11 whether, had you calculated let me scratch 01:14:54	11 A. Yes. 01:17:44
12 that. 01:15:02	12 Q. And certain of his transactions involved 01:17:44
Where a trader like Mr. Sostack 01:15:09	13 Tether? 01:17:47
buys, multiple buys and multiple sales, how 01:15:14	14 A. That's correct. 01:17:48
15 do you calculate gain or loss? Do you use a 01:15:18	15 Q. And what did you use to calculate the 01:17:49
16 FIFO analysis, LIFO? How do you 01:15:22	16 amount paid at time of purchase in those 01:17:56
17 A. In the case of Mr. Sostack, I did it both 01:15:25	17 instances where Mr. Sostack used Bitcoin 01:18:00
ways and it did not make any difference. 01:15:28	18 to purchase XRP? 01:18:02
19 Q. Would you agree that there are instances 01:15:31	19 A. His transaction records indicated how 01:18:04
where it can make a difference whether you 01:15:34	20 much Bitcoin he paid and Bloomberg data 01:18:09
21 use FIFO or LIFO? 01:15:37	21 was used to translate quantity of Bitcoin 01:18:15
22 A. Yes. 01:15:39	22 to dollars, dollar value. 01:18:19
23 Q. Would you agree that that could impact, 01:15:40	23 Q. Precisely what Bloomberg data? 01:18:22
24 depending on what methodology is picked, 01:15:51	24 A. Bloomberg provides exchange rates between 01:18:29
25 FIFO or LIFO, that some class members here 01:15:54	25 Bitcoin in dollars, and I used that data 01:18:33
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1 could be impacted favorably and others 01:15:57	1 precisely I specified as of 4:00 p.m., so 01:18:37
1 could be impacted favorably and others 01:15:57 2 unfavorably? 01:16:02	1 precisely I specified as of 4:00 p.m., so 01:18:37 2 end of trading day in New York. 01:18:41
2 unfavorably? 01:16:02	2 end of trading day in New York. 01:18:41
2 unfavorably? 01:16:02 3 A. It's possible. 01:16:02	2 end of trading day in New York. 01:18:41 3 Q. Did you know at the time what time Mr. 01:18:45
2 unfavorably? 01:16:02 3 A. It's possible. 01:16:02 4 Q. Have you determined what methodology would 01:16:03	2 end of trading day in New York. 01:18:41 3 Q. Did you know at the time what time Mr. 01:18:45 4 Sostack's transaction happened? 01:18:49
2 unfavorably? 01:16:02 3 A. It's possible. 01:16:02 4 Q. Have you determined what methodology would 01:16:03 5 be the appropriate methodology to use here, 01:16:06	2 end of trading day in New York. 01:18:41 3 Q. Did you know at the time what time Mr. 01:18:45 4 Sostack's transaction happened? 01:18:49 5 A. No. 01:18:51
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2 unfavorably? 01:16:02 3 A. It's possible. 01:16:02 4 Q. Have you determined what methodology would 01:16:03 5 be the appropriate methodology to use here, 01:16:06 6 FIFO or LIFO? 01:16:09 7 MR. SPEAR: Objection, scope. 01:16:11	2 end of trading day in New York. 01:18:41 3 Q. Did you know at the time what time Mr. 01:18:45 4 Sostack's transaction happened? 01:18:49 5 A. No. 01:18:51 6 Q. Do you know if on the Bloomberg data, does 01:18:52 7 it have data for every minute of the day 01:18:58
2 unfavorably? 01:16:02 3 A. It's possible. 01:16:02 4 Q. Have you determined what methodology would 01:16:03 5 be the appropriate methodology to use here, 01:16:06 6 FIFO or LIFO? 01:16:09 7 MR. SPEAR: Objection, scope. 01:16:11 8 A. No, but I have determined that whichever 01:16:12	2 end of trading day in New York. 01:18:41 3 Q. Did you know at the time what time Mr. 01:18:45 4 Sostack's transaction happened? 01:18:49 5 A. No. 01:18:51 6 Q. Do you know if on the Bloomberg data, does 01:18:52 7 it have data for every minute of the day 01:18:58 8 or only 4:00 p.m.? 01:19:03
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1 p.m., that could affect some class members 01:19:59	1 A. I hadn't thought about it before you were 01:23:31
2 favorably and some class members unfavorably? 01:20:01	2 asking about it today, and I'm not sure 01:23:33
3 MR. SPEAR: Objection, calls for 01:20:04	3 from a legal perspective whether someone 01:23:38
4 speculation. 01:20:05	4 who's paid in XRP is considered a purchaser 01:23:41
5 A. I don't know for sure, but it's possible. 01:20:05	5 of XRP. As I sit here now, it's my first 01:23:44
6 Q. Referring to your damages models at 01:20:15	6 impression, which may change as I consider 01:23:50
7 Paragraphs 19 and 20 of your report, the 01:20:37	7 it further, but my first impression is that 01:23:52
8 first input is the dollar amount paid at 01:20:41	8 it certainly could. It would measure the 01:23:55
9 time of purchase. How would you apply 01:20:44	9 value of the XRP that was delivered with an 01:23:57
10 this methodology to someone who acquired 01:20:51	10 understanding that that's what the person 01:24:00
11 XRP as payment for their work, for example, 01:20:57	11 was getting paid. 01:24:02
12 from their employer? 01:21:01	12 Q. How would this methodology apply to someone 01:24:04
13 A. First of all, I don't know if I would. 01:21:04	13 who acquired XRP in exchange for a tangible 01:24:06
14 That seems to be a legal determination 01:21:06	14 good, like a cup of coffee? 01:24:09
15 whether that hypothetical person would be 01:21:08	15 A. You could do the same thing, look at the 01:24:20
16 a member of the class, but it's certainly 01:21:13	16 quantity of XRP and the value in terms of 01:24:21
theoretically possible to value the work 01:21:23	17 dollars of the XRP at the time of that 01:24:24
18 that is being paid for or just use the 01:21:25	18 transaction. 01:24:25
19 quantity of XRP that's being delivered and 01:21:33	19 Q. How would it apply to someone who acquired 01:24:37
20 a market price of the XRP at that time. 01:21:35	20 XRP pursuant to a bilateral contract 01:24:49
21 Q. Even in the case of even if the 01:21:39	21 providing for the exchange of XRP? 01:24:55
22 compensation, the amount of XRP that the 01:21:59	22 A. As I sit here now, I think you could do the 01:25:04
23 employee would receive was set months in 01:22:03	23 same thing. You can calculate the dollar 01:25:07
24 advance of when the employee received it, 01:22:08	24 value of the XRP that was conveyed as of the 01:25:09
25 are you proposing that you would use the 01:22:11	25 time of the conveyance. 01:25:15
Page 110	Page 112
1 value of the XRP at the time it was 01:22:13	1 Q. And if the contract were to have a 01:25:17
1 value of the XRP at the time it was 01:22:13 2 received, not when the compensation 01:22:14	1 Q. And if the contract were to have a 01:25:17 2 clause that would, for example, make the 01:25:25
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1 XRP? 02:15:13	1 I declare under penalty of perjury that the	
2 A. I don't know for sure. I know that the 02:15:14	2 foregoing is true and correct. Subscribed at	
3 important ones, the common ones it does. 02:15:16	3,, thisday of	Î
4 I know sometimes there's an announcement 02:15:21	4, 20	
5 that Bloomberg has taken on a new currency 02:15:23	5	
6 so that would tell me at points in time 02:15:27	6	
7 it might be omitting a particular currency, 02:15:28	7	
8 but I know that in this industry the exchange 02:15:32	8	
9 rate data exists. Bloomberg is a good 02:15:35	9	
source, but if something is missing from 02:15:40	10 WITNESS NAME	
Bloomberg, there are other sources that can 02:15:41	11	
12 be used. 02:15:44	12	
13 Q. Do you agree that where XRP is purchased 02:15:44	13	
or sold pursuant to a bilateral contract, 02:15:50	14	
that it may be necessary to see the contract 02:15:55	15	
to apply the damages formula you set forth 02:15:57	16	
17 in Paragraphs 19 and 20? 02:16:00	17	
MR. SPEAR: Objection, asked and 02:16:02	18	
answered. Objection, calls for speculation. 02:16:02	19	
20 Objection, incomplete hypothetical. Go 02:16:05	20	
J . 1 71	21	
	21 22	
22 A. I'm really not sure. I know that this is 02:16:11		
the kind of detail that claims administrators 02:16:14	23	
are proficient at handling. They know what 02:16:16	24	
25 questions to ask and how to facilitate the 02:16:20 Page 142	25 Page	e 14
1 administration of claims. That's their 02:16:24	1 COMMONWEALTH OF MASSACHUSETTS)	
2 job. I wasn't asked for that level of 02:16:28	2 SUFFOLK, SS.)	
3 detail. What I was asked to what I 02:16:33	4	
4 presented in my report is a common damage 02:16:37	I, Jeanette Maracas, Registered 5 Professional Reporter and Notary Public in	
5 methodology. Some of the implementation 02:16:41	and for the Commonwealth of Massachusetts,	
6 might require the expertise of a claims 02:16:49	6 do hereby certify that there came before me on the 20th day of January, 2023, at 9:41	
	7 a.m., the person hereinbefore named, who	
	was by me duly sworn to testify to the truth 8 and nothing but the truth of his knowledge	
8 the model that's presented in my report. 02:16:54	8 and nothing but the truth of his knowledge touching and concerning the matters in	
9 Q. When you refer to the model in your report, 02:16:55	9 controversy in this cause; that he was	
you're referring to Paragraphs 19 and 20? 02:16:58	thereupon examined upon his oath, and his 10 examination reduced to typewriting under my	
11 A. Well, 17 and 19 and 20 as they are or 02:17:00	direction; and that the deposition is a true	
perhaps 19 and 20 as modified based on legal 02:17:05	11 record of the testimony given by the witness. 12	
determinations. 02:17:09	I further certify that I am neither	
4 Q. Okay. I have no further questions. 02:17:09	13 attorney or counsel for, nor related to or employed by, any attorney or counsel employed	
MR. SPEAR: I got nothing. 02:17:22	14 by the parties hereto or financially	
VIDEOGRAPHER: The time is 2:17. 02:17:25	interested in the action.	
We're off the record. 02:17:27	15 16 In witness whereof, I have hereunto	
8 (Whereupon the deposition was 02:17:29	set my hand this 25th day of January, 2023.	
9 concluded at 2:17 p.m.)	17 18	
20	19	
21	20 130141 y 1 110110	
22	My commission expires 7/29/27	
23	21 22	
24	23	
25	24 25	
Page 143		a 1.